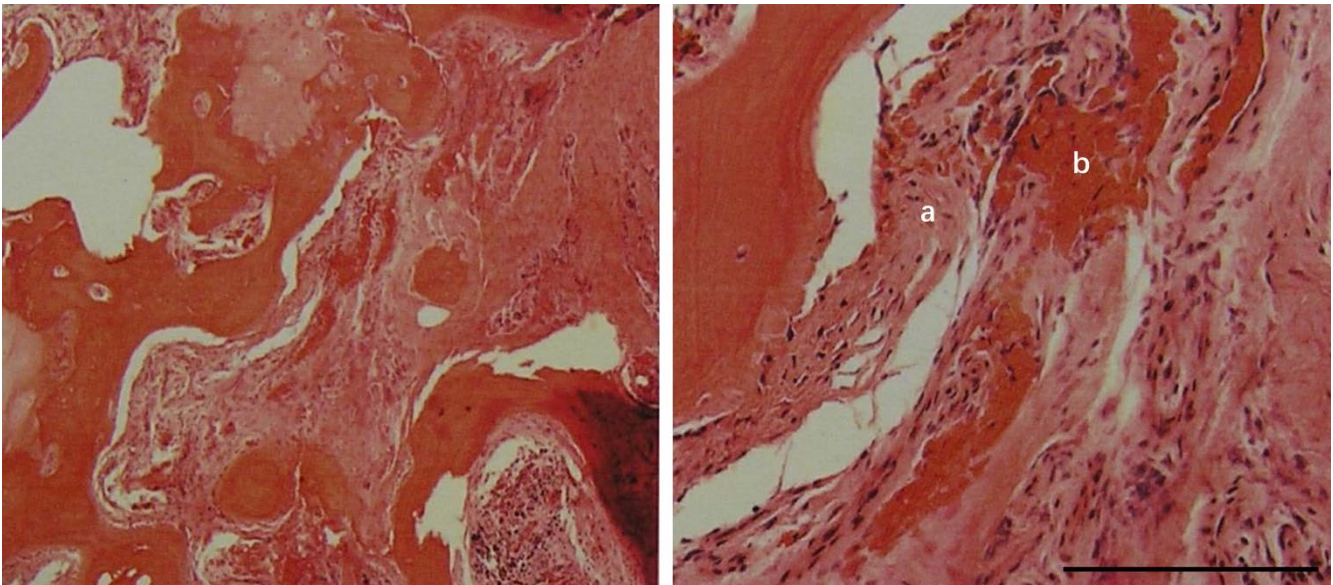
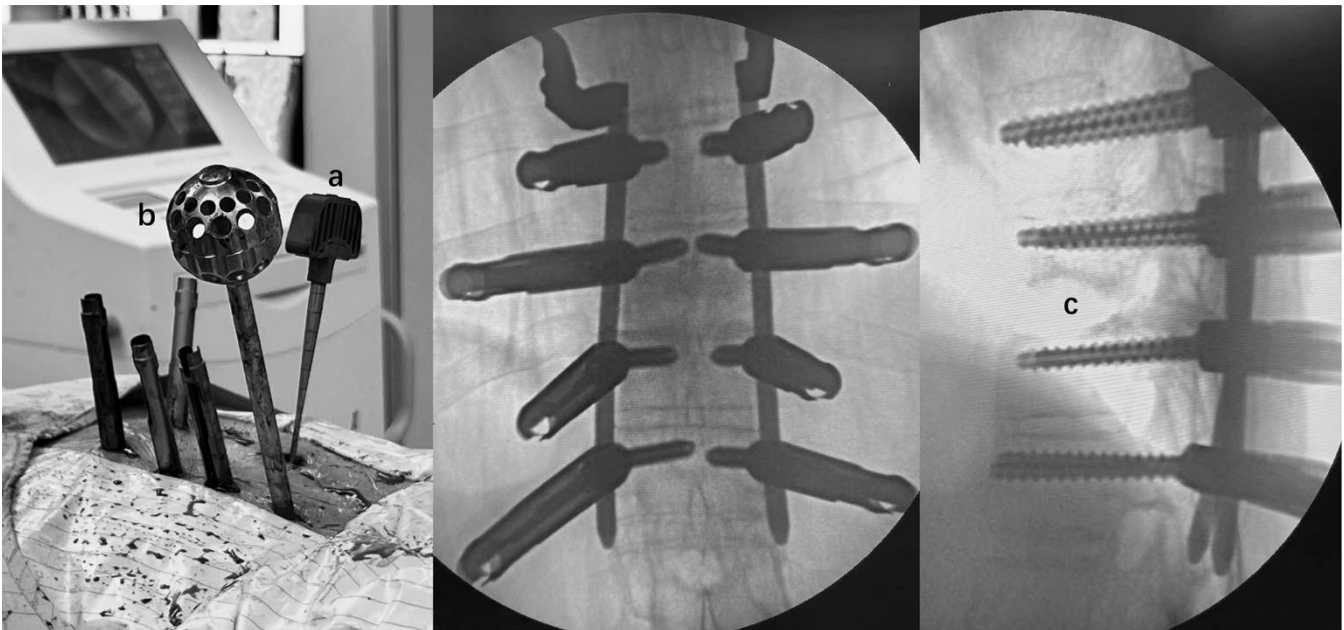


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**Fig a.** Pathological examinations showing fibrous tissue with a) hyalinization and b) partial new bone formation. Scale bars: 500 $\mu$ m.



**Fig. b.** Percutaneous fixation in a 37-year-old male patient using pedicle screw from T10-L1 without bone graft. a) Puncture needle (Kang Sheng, China). b) Radiograph of limited-depth puncture needle designed by G. Wang, featuring an automatic depth limiter to ensure surgical safety. c) Andersson lesion without bone graft.

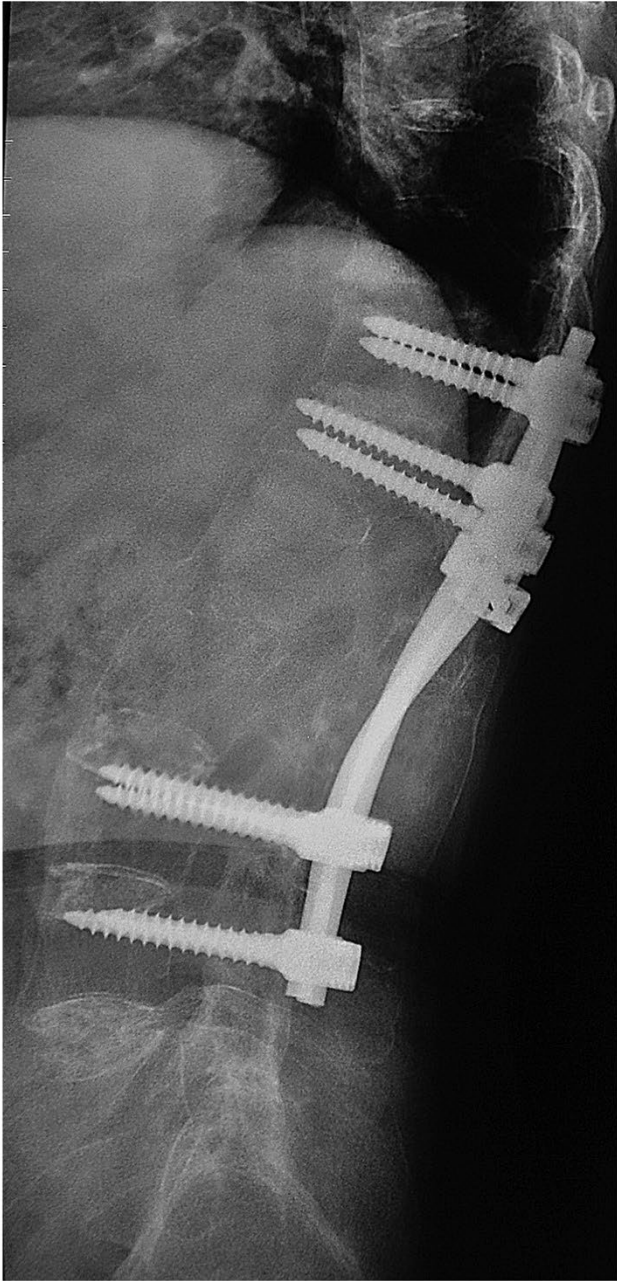


**a**



**b**

**Fig. c.** a) Preoperative CT scan and b) MRI of the same patient in Figure 1 of the main article, showing severe inter-vertebral destruction and ruptured posterior ligaments.

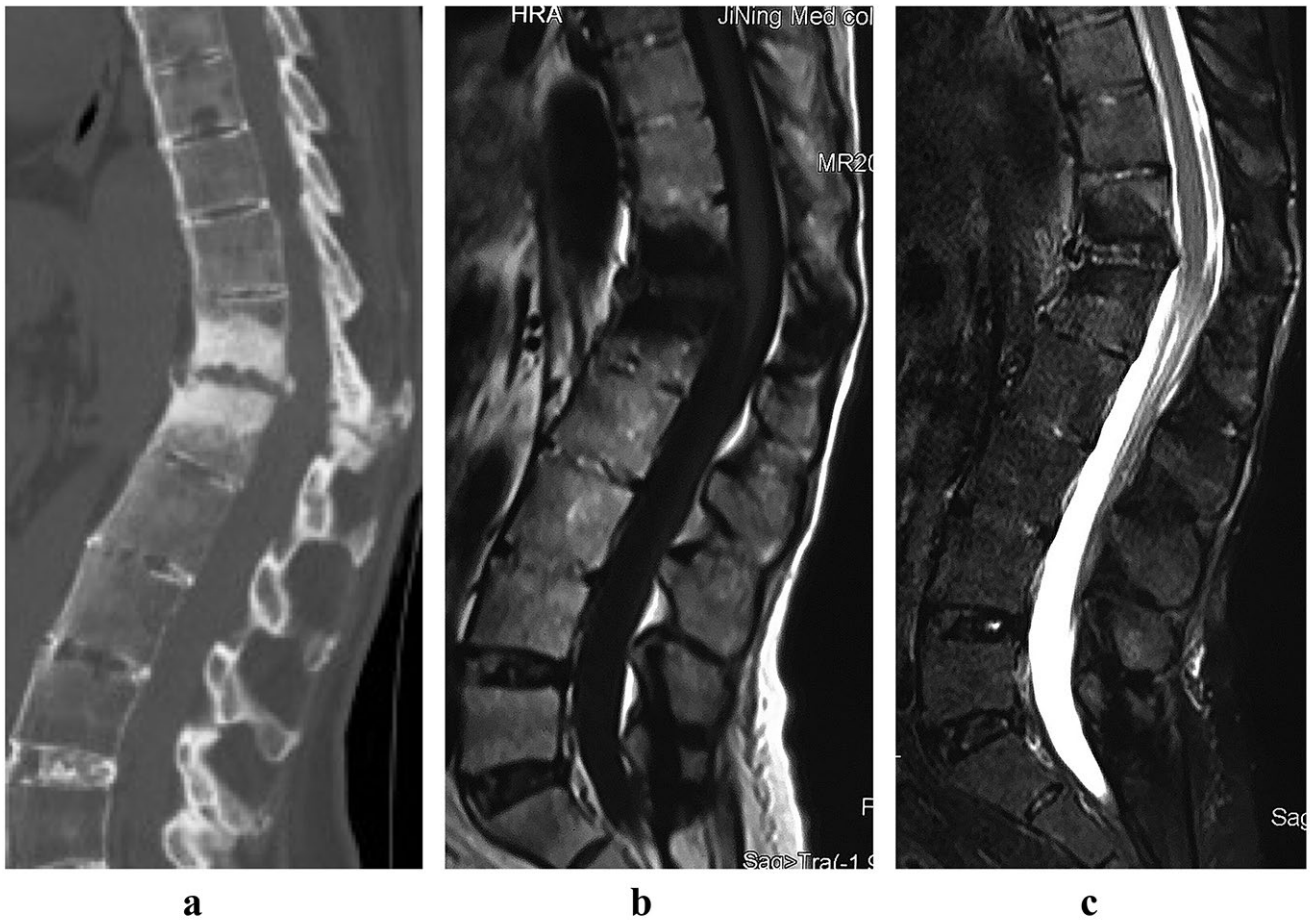


**a**



**b**

**Fig. d.** a) Open spinal fusion surgery without anterior lesion curettage or reconstruction bone grafting in the same patient from Figure 1 of the main article, shown on lateral radiograph at six-month follow-up. b) The anterior lesion was in the process of healing on the CT at one-year follow-up.



**Fig. e.** a) Preoperative CT scan, b) MRI T1-weighted image, and c) MRI T2-weighted image with fat suppression showing severe inter-vertebral destruction and ruptured posterior ligaments.